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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/085,068	05/26/1998	ALAN J. WEINBERGER	#98PS039	6403

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ROCKWELL COLLINS, INC.
INTELLECTUAL PROPERTY DEPARTMENT
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EXAMINER

TRUONG, LECHI

ART UNIT	PAPER NUMBER
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2126

DATE MAILED: 03/25/2004

7

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/085,068

Applicant(s)

WEINBERGER ET AL.

Examiner

LeChi Truong

Art Unit

2126

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 January 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 and 21-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 and 21-24 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5. 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1-14 and 21-24 are presentation for examination. This is in response to amendment filed 1/06/2004. Applicant amended claims 1-14, canceled claims 15-20 and added claims 21-24.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 4-14, 21, 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schwartz et al (Us. 6,473,609 B1) in view of Griffin (Us. Patent 6,237,005 B1).

As to claim 1, Schwartz teaches the invention substantially as claimed including : a computer (link server module 300, col 7, ln 45-60/ col 8, ln 35-67/ col 3, ln 37-60/fig 3A), communication (communication, col 7, ln 45-60/ col 8, ln 35-67/ col 3, ln 37-60/fig 3A), a plurality of physical devices (the mobile devices, col 3, ln 15-60), a framework for one more network address unit objects (the server module 310, col 7, ln 45-60/ col 8, ln 35-67/ col 3, ln 37-60/fig 3A), dispatch object (account manager 321, col 8, ln 32-67), one or more virtual line replaceable unit (a control engines , col 8, ln 32-67/ col 12, ln 55-67), managing (managing, col 8, ln 32-67), a message processor, col 8, ln 32-67/ Fig6).

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Schwartz does not explicit teach the term “ transaction dispatcher”. However, Griffin teaches “ transaction dispatcher”(the dispatcher process 246 parses the transaction, col 8, ln 5-67).

It would have been obvious to one of the ordinary skill in the art at time invention was made to combine the teaching of Schwartz and Griffin because Griffin’s dispatcher process would improves upon transaction processing performance.

As to claim 4, Schawartz teaches message processor (message processor, col 3, ln 40-60), convert (converts, col 3, ln 40-60), second format (a compact data file, col 3, ln 40-60).

As to claim 5, Schawartz teaches a virtual line replaceable unit performs the step of maintaining the status of related devices (maintain push data, including alerts, electronic mails, col 12, ln 55-68).

As to claim 6, Schawartz teaches perform step adding and removing one or more virtual line replaceable units (account manager 312 is responsible for managing the operations of control engines 320, col 8, ln 45-67).

As to claim 7, Schawartz teaches moving from one storage location to another (the data carring the device characteristics of mobile device 602 is received and maintained in link server, col 11, ln 25-40).

As to claim 8, it is an apparatus claim of claim 1; therefore, it is rejected for the same reason as claim 1 above. In additional, Schawartz teaches a system server (link server, col 7, ln 45-67).

As to claims 9-14, they are apparatus claims of claims 2-7; therefore, they are rejected for the same reasons as claims 2-7 above.

As to claim 21, it is an apparatus claim of claim 1; therefore, it is rejected for the same reasons as claim of claim 1 above. In addition, Schwartz teaches a cabin file server (link server/ server module, col 7, ln 45-67), a plurality of line replacement units (an interface engine of the mobile device 350, col 10, ln 17-53).

As to claim 22, Schwartz teaches session threads (the typical function, col 12, ln 55-68), virtual line replaceable unit (the control engine, col 12, ln 55-68), the name pipes (line 1, line 2, ln 3.../ address identifier, col 15, ln 10-50).

3. Claims 2, 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schwartz et al (Us. 6,473,609 B1) in view of Griffin (Us. Patent 6,237,005 B1) and further in view of Chang et al (US. Paten 6,104,719).

As to claim 2, Schwartz and Griffin do not teach tracking message to the one or more physical device utilizing a queue. However, Chang teaches tracking message to the one or more physical device utilizing a queue (queue is provided with each message stream. As a result, each queue can keep track of the state at which the corresponding message stream is located, col 2, ln 15-26).

It would have been obvious to one of the ordinary skill in the art at the time invention was made to combine teaching of Schawatz, Griffin and Chang because Chang's "queue is provided with each message stream. As a result, each queue can keep track of the state at which the corresponding message stream is located" would support several concurrent message streams.

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As to claim 3, it is rejected an apparatus claim of claim 2; therefore, it is rejected for the same reason of claim 2 above.

4. Claims 23, 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schwartz et al (Us. 6,473,609 B1) in view of Griffin (Us. Patent 6,237,005 B1) and further in view of Durall et al (US. Patent 5,884,033).

As to claim 23, 24, Schawartz teaches right thread/ left thread wait and look up for incoming message (the control engine process request/ an address table is maintained in link server 606 that maps, col 15, ln 1-67), a VLRU name and NAU object ID (address identifier and address buffer, fig. 8A).

Schwartz and Griffin does not teach outgoing for the message, read a NAU object ID. However, Duvall teaches outgoing for the message, read a NAU object ID (outgoing message, checking information in the message: interface port and IP address, col 1, ln 25-63).

It would have been obvious to one of the ordinary skill in the art at the time invention was made to combine the teaching of Schwartz, Griffin and Durall because Duvall's "outgoing message, checking information in the message: interface port and IP address" would monitor transmission to search a particular command on a server in a network to which the client is coupled.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (703) 305 5312. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 703-305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

LeChi Truong

March 12, 2004



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